Edward J. Lahoda

Education

Institution	Field of Study	Degree	Year
University of Pittsburgh	Chemical Engineering	B.A.	1971
University of Pittsburgh	Chemical Engineering	M.S.	1972
University of Pittsburgh	Chemical Engineering	Ph.D.	1974
University of Pittsburgh	Business	MBA	1978

Employment History

Position	Year
Consulting Engineer, Nuclear Energy Innovation Leadership R&D Unit	2010-present
Consulting Engineer and Group Lead Chemical Engineering R&D Unit	2004-2010
Advisory Engineer, Chemical Engineering R&D Unit	1993-2004
Fellow Engineer, Chemical Engineering R&D Unit	1983-1993
Senior Engineer , Chemical Engineering R&D Unit	1974-1983

Awards

Finalist, Kirkpatrick Chemical Engineering Award, 1993
George Westinghouse Innovation Award, 1992
George Westinghouse Signature Award of Excellence, 1992
Westinghouse Nuclear Fuels Quality Achiever, 1985 and 1987

Professional Activities

Member, American Institute of Chemical Engineers
Registered Professional Engineer, Pennsylvania

Professional Experience

Dr. Lahoda has over thirty five years of experience in process analysis, development, design, and field support. He provides R&D and technical and operating support to the Westinghouse fuel manufacturing facility in Columbia, SC as well as the services division at Waltz Mill, PA. He is lead engineer on advanced products and manufacturing techniques for the Westinghouse Fuels Division. Previous projects include improvements in the Hybrid Sulfur Process for making hydrogen using high temperature process heat from the PBMR, evaluation of the use of AVLIS enriched uranium, the manufacture of ThO_2/UO_2 mixed oxide fuel, the use of up to 20% ^{235}U and the manufacture of large annular pellets at the Westinghouse commercial nuclear fuel plant in Columbia, SC. He has extensive background in the manufacture of uranium based fuels and operation of the waste treatment and other ancillary systems. In the environmental area he was responsible for the technical development and field startup of the Westinghouse soil washing and high temperature thermal desorption technologies. He has chemical process design experience in processing chemical warfare agents, nuclear fuels, high and low level nuclear wastes and plasma processing of wastes and plasma production of specialty materials. He has provided field support to operating facilities including the Westinghouse incinerators, nuclear fuels production, steam generator maintenance, soil washing and thermal desorption operations. He has served as a reviewer and consultant at Savannah River Site (DWPF operations and test data validity for DWPF, chaired the ITP Chemistry Review Panel, ITP Replacement Review Panel) and Hanford (Pulse Jet Mixer engineering, hydrogen mitigation, Cs removal and WTP project engineering review). He has also served as a member of the National Academy of Sciences ad hoc Committee on Research Needs for HLW (twice) and was a technical advisor to the committee on evaluating disposal options for the INEEL calcine.

Since joining Westinghouse in 1974, his other program development and implementation efforts have included the following:

- Modeling of radioactive plateout and corrosion of graphite fuel pins in HTGRs
- Chemical plant startup and operations improvements.
- Testing of the high level waste zeolite transfer pump for the West Valley site.
- Survey of high level waste treatment options for the West Valley site.
- Development of laboratory and pilot scale testing methods for removal of low levels of NO_3^-, NH_3, F^-, and solids from discharge streams.
- Development of electrolytic and airborne abrasive techniques for use in decontamination of nuclear steam generators.
- Development of water lancing techniques for removal of steam generator sludges.